



National Aeronautics and
Space Administration
Lyndon B. Johnson Space
Center

NIST
National Institute of
Standards and Technology
Technology Administration
U.S. Department of Commerce

DRAFT AGENDA

2nd Joint Workshop on Measurement Issues in Single Wall Carbon Nanotubes: Purity and Dispersion Part II

**January 26-28, 2005
NIST, Gaithersburg, MD,
Administration Bldg. Green Auditorium**

Wednesday, January 26th

7:30am

REGISTRATION AND CONTINENTAL BREAKFAST

WELCOME

Session Chair: Stephen Freiman, NIST, Gaithersburg, MD

8:00

Welcome/Workshop Charge

DOC/NIST
NASA-HQ

8:30

Standards Development at NIST

NIST

PLENARY TALKS

Session Chair: Sivaram Arepalli, NASA-JSC

9:00

Dr. Robert Haddon, University of California at Riverside

9:35

Mr. Jim Von Ehr II, CEO, Zyvex Corporation

10:10

BREAK

SESSION ONE – Purity Characterization – Existing Protocols

Session Chair: Leonard Yowell, NASA-JSC

10:30

Rice University, Houston, TX

Dr. Robert Hauge

10:55

Max Planck Institute, Germany

Dr. Ursula Detlaff

11:20	Jeonbuk National University, Korea	Dr. Young Hee Lee
11:55	SouthWest NanoTechnologies, Norman, OK	Dr. Daniel Resasco
12:20	LUNCH	

SESSION ONE – Protocols (Continued)

Session Chair: Robert Haddon, University of California at Riverside

1:30	NASA-Johnson Space Center, Houston, TX	Dr. Pasha Nikolaev
1:55	Zyvex Corporation	Dr. Mark Banash

SESSION TWO – Purity Characterization – New Techniques

Session Chair: Robert Hauge, Rice University, TX

2:20	University of California, Riverside	Dr. Mikhail Itkis
2:45	Duke University	Dr. Jie Liu
3:10	NIST, EEEL	Mr. John Lehman

3:35 BREAK

4:30	BREAKOUT SESSIONS – Purity analysis (Sivaram Arepalli, Pasha Nikolaev, Richard Cavanagh)	
6:00	Adjourn	
7:00	Reception (hotel)	
7:30	Poster Session (hotel)	

Thursday, January 27th

7:30am

REGISTRATION AND CONTINENTAL BREAKFAST

7:55	Welcome & Logistics for Day 2	Dr. Stephanie Hooker Dr. Sivaram Arepalli
8:00	Need for Standards for Space Applications	NASA-JSC

SESSION THREE – Novel Separation and Dispersion Metrology

Session Chair: Dr. Kalman Migler, NIST, Gaithersburg, MD

8:30	DuPont	Dr. Ming Zheng
8:55	NIST, MSEL	Dr. Barry Bauer
9:20	University of Pennsylvania	Dr. Mohammed Islam
9:45	Carbon Nanotechnologies, Inc.	Dr. Jeff Bahr
10:10	BREAK	

SESSION FOUR –Dispersion Quality – Composite Applications

Session Chair: Dr. Cheol Park, NIA/NASA-LaRC

10:30	NASA-LaRC	Dr. Peter Lillehei
10:55	Rice University	Dr. Rick Barrera
11:20	University of Texas at Dallas	Dr. Ray Baughman
11:45	LUNCH	

SESSION FIVE – Isolated Tube Characterization

Session Chair: Dr. Stephanie Hooker, NIST, Boulder, CO

1:00	Motorola, IEEE Standards	Dr. Dan Gamota
1:25	Boston University	Dr. Anna Swan
1:50	DOE/Los Alamos National Laboratory	Dr. Steve Doorn
2:15	Northwestern University	Dr. Rodney Ruoff
2:40	University of North Carolina	Dr. Richard Superfine
3:05	BREAK	
3:30	BREAKOUT SESSIONS – Dispersion measurements (Leonard Yowell, Cheol Park, Kalman Migler)	

5:30 Adjourn

7:30 Dinner in groups (if desired)

Friday, January 28th

7:30am **REGISTRATION AND CONTINENTAL BREAKFAST**

7:55	Welcome & logistics for Day 3	Stephanie/Sivaram
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PANEL DISCUSSION – Reports from Breakout Sessions

Moderator: Steve Freiman, NIST, Gaithersburg, MD

8:00 Panel 1 - Purity Analysis (co-chairs from each breakout)

9:30 **BREAK**

10:00 Panel 2 – Dispersion Measurement (co-chairs from each breakout)

11:30 Summary, General Discussion, and Plans for Future

12:30 Adjourn meeting

12:45 Lunch in groups if desired

2:00 Tours of NIST Facilities (by sign-up sheet)
 (NCNR and/or AML)